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The differences will be still more striking, if it be further assumed, that the projective force is not only dependent on the pressure at the time of the explosion, but also on the specific gravity of the gases, or what may be termed their energy; and that, in regard to gunpowder, this effect is considerably lessened by the fact, that, when the explosion takes place in a vessel that yields before the maximum force is attained, a considerable proportion of the powder is thrown out before it can act or be ignited; while, with liquids, the ignition of the whole mass is instantaneous. Mr. B. had no doubt that, in this respect, the force of the perchlorate of the oxide of ethule might be considered more than ten times as great as that of gunpowder. It would also be evident from these considerations, that, in this same respect, the chloride of nitrogen, although considerably inferior to the perchlorates, still greatly surpasses gunpowder; and that a prevalent opinion to the contrary must be founded in a deception, probably arising from the smallness of the quantities of this dangerous substance which can be employed with safety in experiments.

The Committee appointed at the adjourned meeting of the 5th of July, to report in relation to the proper course to be pursued for the protection of the trust funds of the Society, made a report, which was recommitted to the same Committee, with instructions to report at an adjourned meeting, to be held on Friday evening next.

The following gentlemen were elected members of the Society:—

PETTY VAUGHAN, of London.

FREDERICK FRALEY, of Philadelphia.

Adjourned Meeting, July 22.

Present, thirty-five members.

Dr. PATTERSON, Vice-President, in the Chair.

The report of the Committee on the Museum property, under the resolution passed at the adjourned meeting of the 5th of July, was read, and the Society adopted the recommendations contained therein; namely, that the several instru-

ments of writing, indicated in the report as necessary for carrying into effect the purchase of the Museum property, and for concluding with the Philadelphia Museum Company and with Nathan Dunn, the agreements relative to the occupation of parts of the Museum building, be executed by the President in due form.

On motion of Mr. T. I. Wharton, the Committee on the trust funds of the Society was continued.

Prof. Bache read a communication, in relation to the balance due by the Society for the expenses of the Magnetic Observatory. This communication was referred to the Committee on the trust funds.